

Localities.—Blackfellow's Diggings, Rockhampton, Queensland (*Daintree Collection*). *F. fossula*, Lonsdale, is recorded from Mount Wellington, Tasmania (*Morris*); St. Patrick's Plains and Raymond's Terrace, New South Wales (*Morris*); Bell's Creek and Darlington, New South Wales (*McCoy*); Glendon, New South Wales (*Dana*); Smithfield Reef, Gympie Goldfield, Queensland (*Etheridge*).

FENESTELLA. *Figs. 2 and 2a.*

Fig. 2 represents another species of *Fenestella* from Gympie, as a cast in yellow sandstone, evidently the remains of a large and handsome species. The fenestrules appear to have been oval, and tolerably large in proportion to the other parts; the interstices bore two rows of cell-apertures, separated by a small flexuous keel, from four to six cell-apertures to each fenestrule. In places a third row of cells is developed, especially previous to the bifurcation of the interstices or stems. This species has somewhat the appearance of Lonsdale's *Fenestella internata* (*Darwin's Geol. Obs. Volc. Islands*, App. p. 165; *Strzelecki's Phys. Descr. N. S. Wales, &c.* p. 269, t. 9, f. 2); but it is apparently too large, and there are too many cells to the fenestrule. As there is only one specimen, and that a cast, I refrain from giving to it any new specific name.

Locality.—Gympie, Queensland (*Daintree Collection*).

EXPLANATION OF THE FIGURES.

- Fig. 1.* *Polypora ampla*, Lonsdale, natural size.
 „ 1A. A portion of the same, enlarged.
 „ 2. *Fenestella*, natural size; Gympie.
 „ 2A. A portion of the same, enlarged.

ART. XIV.—*On the Importance of a more close and systematic Observation of the Oceanic and Atmospheric Phenomena of our Coasts.*

By T. E. RAWLINSON, ESQ.

[Read 12th April, 1875.]

ART. XV.—*On some of the Results of the Challenge Expedition.*

By GEORGE FOORD, ESQ.

[Read 17th May, 1875.]